

**Extrusion Process for the Preparation of Toughness-Modified
and Layered Silicate-Reinforced Thermoplastic Systems**

Abstract of the Disclosure

This invention relates to an extrusion method for the production of strength-modified and phyllosilicate-reinforced thermoplastic systems. According to the invention, a production method for nanocomposite materials, using the most economic raw materials, which may be easily worked and which do not require a complicate preparation before processing and with establishment of a starting material composition which meets the requirements for a high-performance nanocomposite material, in particular, with regard to rigidity and strength, may be achieved, whereby a strength modifier in the form of a phyllosilicate is added to the compounded system as an essentially aqueous dispersion and the water is at least partly removed from the compounded system during the extrusion.